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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/981,503		10/16/2001	L. James Hwang	X-953 US	6920
24309	7590	03/13/2006		EXAMINER	
XILINX	•		PHAN,	PHAN, THAI Q	
ATTN: LEGAL DEPARTMENT 2100 LOGIC DR			ART UNIT	PAPER NUMBER	
SAN JOSE, CA 95124			2128		
				DATE MAILED: 03/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Superson		09/981,503	HWANG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Thai Q. Phan	2128				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[\]	Responsive to communication(s) filed on 23 No.	ovember 2005.					
•		action is non-final.					
ت ر	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	•					
4)⊠	Claim(s) 1-14 is/are pending in the application.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
·	Claim(s) is/are allowed. Claim(s) <u>1, 6-9, and 11</u> is/are rejected.						
· —							
'=							
,	on Papers						
_							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:		-(d) or (f).				
	1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
* ~	application from the International Bureau (PCT Rule 17.2(a)).						
" S	ee the attached detailed Office action for a list of	or the certified copies not receive	a.				
Attack	val						
Attachmen 1) ☐ Notic	(ls) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Page 1975 Other:	atent Application (PTO-152)				

Application/Control Number: 09/981,503

Art Unit: 2128

DETAILED ACTION

This Office Action is in response to applicants' amendment filed on 11/23/2005.

Claims 1-14 are currently pending in the action.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1, 6, 7, 8, 9, and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Waters et al, US patent application publication 2004/0143801 A1.

As per claim 1, Waters anticipates a method and system for electronic circuit design with feature limitations very identical to the claimed invention. According to Waters, the design method includes

Application/Control Number: 09/981,503

Art Unit: 2128

Providing a plurality of user-selectable system-level design object with system behaviors, each level design defined by a system level function ([0036]-[0057]),

Providing a plurality of hardware level design objects, each hardware level design object configured to generate a hardware definition of a hardware level function in a combined manner to implement each system level design object ([0135]-[0144]),

Instantiating a system design in a design file including design objects selected by user, and

Simulating behavior of the system level design with system design functions and component objects and between them in the design [0050]-[0055], [0085]-[0110] for complete design flow simulation and verification ([0055], [0148]-[0185]).

As per claims 6-8, Waters anticipates testbenches for system design level test and for functional test including data capture as claimed.

As per claims 9 and 11, Waters anticipates a method and system for electronic circuit design with feature limitations very identical to the claimed invention. According to Waters, the design apparatus includes means:

Providing a plurality of user-selectable system-level design object, each level design defined by a system level function ([0036]-[0057]),

Providing a plurality of hardware level design objects, each hardware level design object configured to generate a hardware definition of a hardware level function in a combined manner to implement each system level design object ([0135]-[0144]),

Instantiating a system design in a design file including design objects selected by user,

A computing environment that hosts a system level simulator (Fig. 1),

And the simulation means of the simulator for simulating behavior of the system level design with system design functions and component objects [0050]-[0055], [0085]-[0110] for complete design flow verification ([0148]-[0185]).

Allowable Subject Matter

Claims 2-5, 10 and 12-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 11/23/2005 have been fully considered but they are not persuasive.

In response to applicants' argument Waters does not teach system behaviors in the design object, the examiner disagrees with. Waters discloses system behavior and system level simulation in the design unit object [0055], [0110], [0140], [0148]-[0180] for the complete design flow as disclosed in [0182]-[0183].

Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Thai Phan whose telephone number is 571-272-3783.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/981,503 Page 6

Art Unit: 2128

6. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

02/28/2006

Thai Phan

Patent Examiner